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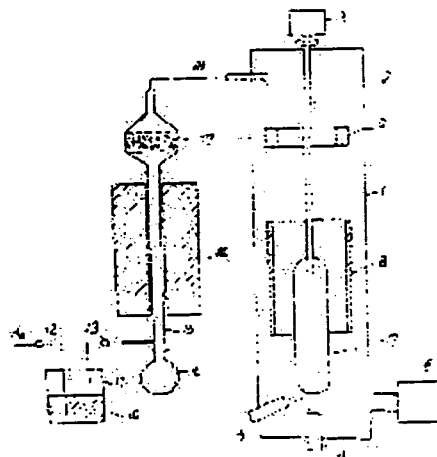
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(54) PRODUCTION OF ANHYDROUS GLASS BASE MATERIAL FOR OPTICAL FIBER

(57)Abstract:

PURPOSE: To obtain the title material with reduced OH group content and free from transition metals, etc. by exposing a porous glass sintered body to high purity Cl₂ obtd. by thermally decomposing vapor of a liquid Cl-contg. cpd. and removing solid matter when the body is converted into transparent glass.

CONSTITUTION: SiO₂-based glass-forming substance is attached to one end of support rod 2 with core glass-forming burner 4 and clad glass-forming burner 5, and cylindrical porous glass sintered body 7 is grown while moving rod 2 with rotary pulling device 3. Next body 7 is converted into transparent glass with heater 9. At this time, He is blown into liquid Cl-contg. cpd. 10 such as S₂Cl₂ or SiCl₄, and vapor formed is introduced into quartz tube 15 in thermal decomposition furnace 14. Solid matter-contg. Cl₂ formed is passed through filter 17 to remove the solid matter, and high purity Cl is introduced into container 1 through duct 18 and contacted to body 7.



LEGAL STATUS

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